



# ***Hidden Lake Pump Station and Sewer Improvement Project - Update***

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## **King County plans to begin construction in Summer 2005**

***King County plans to begin construction of the Hidden Lake Pump Station, the first of three sewer improvement projects in Shoreline, in Summer 2005. Construction of a new storage pipe and sewer line will follow later in the year. Project details are provided on page 2.***

The King County Wastewater Treatment Division protects public health and the environment by conveying and treating our region's wastewater. Many of King County's sewers and wastewater pump stations are more than 30 years old and need to be upgraded to ensure reliable operation. Some facilities also must be expanded to serve our region's growing population.

King County's Hidden Lake Pump Station serves part of the City of Shoreline and collects sewage from the Ronald Wastewater District and Highlands Sewer District. The pump station sends sewage north through the Boeing Creek Trunk Sewer to the Richmond Beach Pump Station and on to the City of Edmonds' wastewater treatment plant. King County has an agreement with Edmonds in which the city treats some county flows in exchange for the county treating some city flows.

### **Replace Pump Station and Sewer**

King County has determined it must replace the Hidden Lake Pump Station and part of the Boeing Creek Trunk Sewer and build a new storage pipe. The pump station, located on the corner of 10th Avenue Northwest and Northwest Innis Arden Way in Shoreline, is nearly 40 years old. The existing station has operating problems and is under capacity. The station does not meet current King County

pump station design standards, including odor and noise control standards. These problems cause about three overflows per year into Puget Sound.

Sections of the Boeing Creek Trunk Sewer are also in poor condition and under capacity. Some corroded sections of the sewer have been relined. While relining restored the sewer's condition, it also reduced its capacity. The corrosion has continued to occur. Concrete in some sections of pipe has corroded down to the steel reinforcing.

### **Project Goals**

King County's goals for the Hidden Lake Sewer Improvement Project include the following:

- Address critical capacity needs.
- Reduce overflows into Puget Sound.
- Minimize impacts on the community and the environment.
- Look for opportunities to partner with other agencies to reduce impacts and costs.
- Provide opportunities for public input.

***The new Hidden Lake facilities will be more reliable and have higher capacity to better serve the community.***

# Hidden Lake Project Description

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King County's Hidden Lake facilities will have more capacity and be more reliable to better serve the community.

The map at right shows the planned improvements. Design and permitting work will be completed in 2005, and construction is expected to run from Summer 2005 to early 2008.

King County will issue a separate construction contract for each of the three projects shown on the map. That means work on all three projects may overlap. Construction of the new pump station will begin first, followed by the new storage pipe and replacement of the trunk sewer.

## Hidden Lake Pump Station

**Begin construction: summer 2005**

**Complete construction: in about 2½ years**

The new Hidden Lake Pump Station will be built on King County's property next to the existing pump station. The pumping capacity will be increased from 4.3 to 6.8 million gallons per day (mgd). The new pump station will meet the county's current design standards, including noise and odor control, and will have greater capacity to meet local needs. Public comment has influenced the design of the pump station and landscaping.

Construction of the facility, which includes one underground floor, will take about two and one-half years. The existing pump station will remain in operation during construction.

## Underground Storage Pipe

**Begin construction: fall 2005**

**Complete construction: in about 2 years**

The new underground wastewater storage pipe will temporarily store wastewater during peak storms. The new storage pipe will be in Boeing Creek Park under and next to the city's existing stormwater facility. The pipe will also replace an existing 24-inch sewer in Boeing Creek Park owned by the Ronald Wastewater District. The new sewer will be

12 feet in diameter and about 640 feet long. The county will also replace 1,000 feet of smaller pipe in the street near the park

We selected this location after detailed analysis of many storage alternatives and consultation with the city. The city plans to improve its existing stormwater facility and make park improvements. Working in the park will minimize traffic impacts and street closures. We will also maintain access to the park during construction. The park will be restored after construction ends for both projects.

## Boeing Creek Trunk Sewer Replacement

**Begin construction: late 2005**

**Complete construction: in about 2 years**

About 12,000 feet of the Boeing Creek Trunk Sewer will be replaced. The sewer will be built in sections about 200 feet long. In each section, the contractor will dig a trench to install new sewer pipes that are 15 to 30 inches in diameter. In other words, the entire 12,000 feet of sewer will not be under construction at one time. Work will be completed in one section and then advance to the next section. Most work will take place in the street right of way. Traffic control signs and flaggers will direct vehicles safely through the work area. Streets will be restored after construction ends.

*Construction work will run  
from summer 2005 to 2008.*

# Hidden Lake Pump Station and Sewer Improvement Project

## 1 Replace Part of the Boeing Creek Trunk Sewer

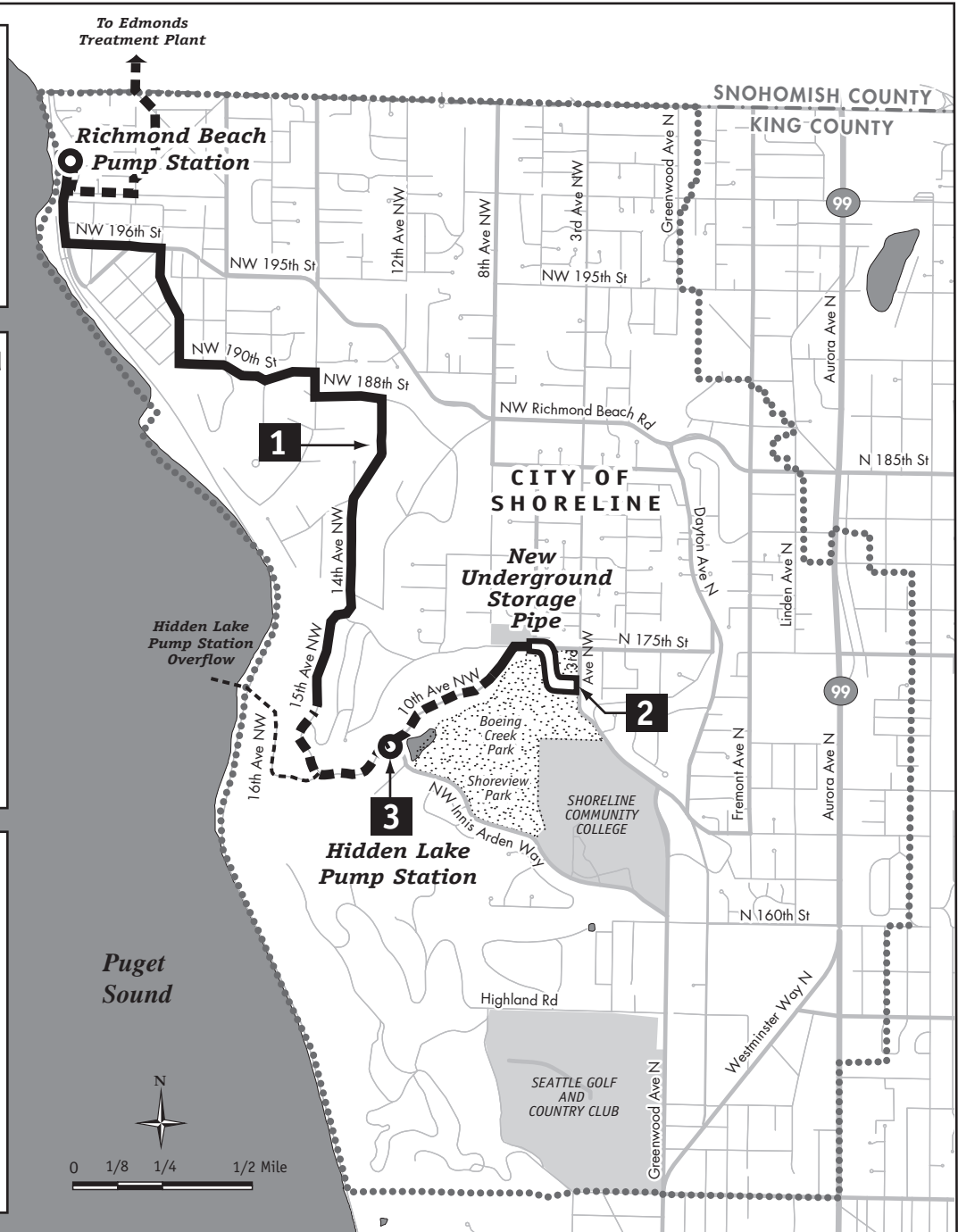
- Use current route.
- Replace about 12,000 feet of sewer, including corroded pipe.
- Improve odor control in problem areas.

## 2 Build a New Underground Storage Pipe

- Build a 500,000-gallon pipe in Boeing Creek Park.
- Locate the pipe under and next to the city's existing stormwater facility.
- Coordinate construction with enlarging the city's stormwater project.
- Replace about 1,000 feet of pipe in the street.
- Restore street and park after construction ends.

## 3 Replace Hidden Lake Pump Station

- Use the existing site.
- Increase the pumping capacity from 4.3 million gallons per day to 6.8 mgd.
- Design building and landscape to fit the community.
- Select equipment to optimize system operation and reduce odors and noise.



### 1 Project Component and Number

— Road

..... Richmond Beach Wastewater Service Area

- - - - - Overflow to Puget Sound

--- Existing Sewer Line

— Boeing Creek Trunk Sewer Line Replacement Area

Water body



**King County**

Department of Natural Resources and Parks

**Wastewater Treatment Division**

# Public Information and Involvement Opportunities

## Your comments and ideas are needed

King County is committed to being a good neighbor. We are working directly with the community throughout the project to ensure that suggestions and concerns are addressed. We began to identify potential community and environmental impacts and ways to minimize them early in the design and environmental review processes.

As we prepare to begin construction, there will continue to be opportunities to learn more about the project, ask questions, and provide suggestions. We plan to:

- Hold a pre-construction community meeting to review the project in detail with neighbors, and identify and address special needs or concerns.
- Provide advance notice of work being planned.
- Brief community and neighborhood groups about the project.
- Operate a 24-hour construction information line to promptly respond to questions and address any problems that may arise.

Our public information and involvement programs will continue throughout construction, and long-term operations and maintenance of the facilities.

## For more information on the Hidden Lake Project:

- Call **Jennifer Kauffman** at **206-263-6029** for more information and answers to your questions and concerns.
- Request updates through e-mail by sending a message to [jennifer.kauffman@metrokc.gov](mailto:jennifer.kauffman@metrokc.gov).
- Ask to be added to the Hidden Lake mailing list for project updates and meeting invitations.
- Visit our web site for additional wastewater information: <http://dnr.metrokc.gov/wtd/projects/hiddenlake.htm>.

*It's easy to get more information about this and other wastewater projects. Just call, e-mail or check out our Web site!*



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